## CLAIMS

- 1. (Amended) A coolant for fuel cells that is used to cool down fuel cells, comprising:
  - a water-containing base material; and
- a rust-preventive additive that functions to keep an electric conductivity of said coolant for fuel cells at a low level and to maintain a hydrogen ion exponent of said coolant for fuel cells in a substantially neutral level.

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- 2. (Amended) A coolant for fuel cells in accordance with claim 1, wherein the base material is a solution mixture containing a glycol.
- 3. (Amended) A coolant for fuel cells in accordance with either one of claims 1 and 2, wherein the rust-preventive additive includes at least one of an alkalescent additive and an acidulous additive.
  - 4. (Amended) A coolant for fuel cells in accordance with either one of claims 1 and 2, wherein the just-preventive additive includes an alkaline additive and an acidic additive.

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- 5. (Amended) A coolant for fuel cells in accordance with claim 4, wherein the alkaline additive is an ethanolamine series.
- 6. (Amended) A coolant for fuel cells in accordance with claim 5, wherein the ethanolamine series includes triethanolamine, diethanolamine, and monoethanolamine.
- 7. (Amended) A coolant for fuel cells in accordance with any one of claims 4 to 6, wherein the acidic additive is selected out of the group



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consisting of triazole compounds, phosphoric acid compounds, and organophosphoric acid compounds.

- 8. (Amended) A coolant for fuel cells in accordance with any one of claims 1 to 7, wherein the rust-preventive additive causes said coolant for fuel cells to have a hydrogen ion exponent of about 6 to 9.
  - 9. (Amended) A coolant for fuel cells in accordance with any one of claims 1 to 8, wherein the rust-preventive additive causes said coolant for fuel cells to have a low electric conductivity of less than about 100 µS/cm.
  - 10. (Amended) A coolant for fuel cells in accordance with any one of claims 1 to 9, wherein the rust-preventive additive especially has rust-preventive performance against aluminum material.
  - 11. A coolant in accordance with claim 1, wherein the rust-preventive additive is a nonionic series substance.
- 12. A coolant in accordance with claim 11, wherein the nonionic series substance includes at least one of a saccharide and a nonionic surfactant.
  - 13. A coolant in accordance with either one of claims 11 and 12, said coolant is decontaminated by a coolant decontamination system using either one of an ion exchange resin and a chelating resin.
  - 14. A coolant in accordance with any one of claims 1 to 13, said coolant has undergone deoxidization.
  - 15. A method of enclosing a coolant in accordance with any one of



claims 1 to 13 in a cooling circuit for a stack of fuel cells, said method comprising the steps of:

deoxidizing said coolant; and

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enclosing said deoxidized coolant with an inert gas in said cooling circuit.

16. A cooling system for a stack of fuel cells, said cooling system
5 comprising:

a coolant in accordance with any one of claims 1 to 13; and a cooling circuit in which said coolant and an inert gas are enclosed.

17. A method of decontaminating a coolant, said method comprising the steps of:

preparing a water-containing base material;

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preparing a rust-preventive additive that functions to keep an electric conductivity of said coolant at a low level and to maintain a hydrogen ion exponent of said coolant in a substantially neutral level; and

removing deteriorating substances from a solution mixture of the base material and the rust-preventive additive with either one of an ion exchange resin and a chelating resin.